

[0086] According to the present invention, there is provided an electronic device functioning as a telephone, comprising: a display portion; an audio input portion; an audio output portion; and operation keys;

[0087] characterized in that:

[0088] the display portion have first EL elements;

[0089] the operation keys have second EL element; and

[0090] the direction of an image displayed by the second EL elements is switchable.

[0091] According to the present invention, there is provided an electronic device functioning as a telephone, comprising:

[0092] a first panel having: one of an audio input portion and an audio output portion; and a display portion;

[0093] a second panel having: one of an audio input portion and an audio output portion; and operation keys;

[0094] characterized in that:

[0095] the first panel and the second panel are connected;

[0096] the angle between the first panel and the second panel can be arbitrarily changed;

[0097] the display portion has first EL elements;

[0098] the operation keys have second EL elements; and

[0099] the direction of an image displayed by second EL elements is switchable.

[0100] According to the present invention, there is provided an electronic device functioning as a telephone, comprising:

[0101] a first panel having: one of an audio input portion and an audio output portion; and a display portion;

[0102] a second panel having: one of an audio input portion and an audio output portion; and operation keys;

[0103] characterized in that:

[0104] the display portion has first EL elements;

[0105] the operation keys have second EL elements;

[0106] the first panel and the second panel are connected;

[0107] the angle between the first panel and the second panel can be arbitrarily changed; and

[0108] the direction of an image displayed by second EL elements is switchable in accordance with the angle between the first panel and the second panel.

[0109] According to the present invention, there is provided an electronic device functioning as a telephone, comprising:

[0110] a first panel having: one of an audio input portion and an audio output portion; and a display portion;

[0111] a second panel having: one of an audio input portion and an audio output portion; and operation keys;

[0112] characterized in that:

[0113] the first panel and the second panel are connected;

[0114] the angle between the first panel and the second panel can be arbitrarily changed;

[0115] the display portion has a plurality of pixels;

[0116] the plurality of pixels each have: a photodiode; a first EL element; a switching TFT; an EL driver TFT; a reset TFT; a buffer TFT; and a selection TFT;

[0117] the switching TFT and the EL driver TFT control light emission from the first EL element;

[0118] light emitted from the first EL elements is reflected upon a subject and irradiated onto the photodiodes;

[0119] the photodiodes, the reset TFTs, the buffer TFTs, and the selection TFTs generate an image signal from the light irradiated onto the photodiodes;

[0120] the operation keys have second EL elements; and

[0121] the direction of an image displayed by the second EL elements is switchable.

[0122] An electronic device may be characterized in that the first EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

[0123] the external quantum efficiency of the EL layer is equal to or greater than 10%.

[0124] An electronic device may be characterized in that the maximum value of the strength of light emitted by the first EL elements is equal to or greater than 251 m/W.

[0125] An electronic device may be characterized in that the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

[0126] the external quantum efficiency of the EL layer is equal to or greater than 10%.

[0127] An electronic device may be characterized in that the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.

[0128] An electronic device may be characterized by having a CCD light receiving portion.

[0129] An electronic device may be characterized in that an image is taken in as electronic data in the CCD light receiving portion.

[0130] An electronic device may be characterized in that:

[0131] the display portion has a touch panel; and

[0132] an image written into the touch panel is read in as electronic data.

#### BRIEF DESCRIPTION OF THE DRAWINGS

[0133] In the accompanying drawings:

[0134] **FIGS. 1A and 1B** are external views of a portable information terminal of the present invention;

[0135] **FIGS. 2A and 2B** are blow up diagrams of an operation panel of a portable information terminal of the present invention;

[0136] **FIGS. 3A and 3B** are top surface diagrams of a portable information terminal of the present invention;

[0137] **FIGS. 4A and 4B** are external views of a portable information terminal of the present invention;